

KATHLEEN RODRIGUES, PHD

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EDUCATION

Doctor of Philosophy (Geology, Specialization: Geochronology)	2020
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University of Nevada Reno, Reno, NV, USA

- Dissertation: “Development and application of luminescence dating approaches to constrain the timing of tephra deposition and the formation of fluvial landforms”

Master of Science (Geology, Specialization: Geochronology and Archaeometry)	2015
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McMaster University, Hamilton, ON, Canada

- Thesis: “OSL Dating of a Coastal Swift Creek Occupation at Harrison Ring, Bay County, Florida”

Honors Bachelor of Science (Biology & Environmental Sciences)	2013
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McMaster University, Hamilton, ON, Canada

- Thesis: “Evaluating OSL equivalent dose distributions in a sandy ant disturbed environment: Apalachicola National Forest”

EMPLOYMENT EXPERIENCE

2020	Instructor , Natural Sciences Department, Anoka-Ramsey Community College
2020	Instructor , Department of Geological Sciences and Engineering, University of Nevada, Reno.
2016 – 17, 19	Research Assistant , Department of Earth and Ecosystem Sciences, Desert Research Institute.
2015 – 16, 18	Teaching Assistant , Department of Geological Sciences and Engineering, University of Nevada, Reno.
2013 - 15	Teaching Assistant , School of Geography and Earth Sciences, McMaster University.

PUBLICATIONS

Peer-Reviewed Publications

2020	Rodrigues, K. , Stapor, F. W., Rink, W.J., Dunbar, J., Doran, G. A 5,700 year-old beach-ridge set at Cape Canaveral, Florida. The Holocene, <i>In press</i> .
2018	Williams, T. J., Collins, M. B., Rodrigues, K. , Rink, W. J., Velchoff, N., Keen-Zebert, A., Gilmer, A., Frederick, C. D., Ayalo, S. J., Prewitt, E. R. Evidence of an early projectile point technology in North America at the Gault Site, Texas, USA. Science Advances 4(7), eaar5954.

- 2016 **Rodrigues, K.**, Rink, W. J., Collins, M. B., Williams, T. J., Keen-Zebert, A. & López, G. I. New ages of the Clovis, Late Paleoindian and Archaic Components at the Gault Site, Central Texas, U.S.A. *Journal of Archaeological Sciences Reports* 7, 94-103.

Book Chapters

- 2017 Mercier, N., Rink, W. J., **Rodrigues, K.**, Morley, M. W., Linder, M. V., Whallon, R. Chapter 9: Radiometric Dating of the Crvena Stijena Sequence. in *Crvena Stijena in Cultural and Ecological Context*. Ed. Robert Whallon. Podgorica: Montenegrin Academy of Sciences and Arts. pp. 140-149.

Manuscripts in Preparation/Under Review

- 2020 **Rodrigues, K.**, Keen-Zebert, A., Crews, J. B., Schumer, R. An overview of the physical basis of luminescence dating. *Quaternary Geochronology*, *Under Review*.
- 2020 **Rodrigues, K.**, Keen-Zebert, A., Shepherd, S. L. Variability in the depositional age of alluvial fill overlying strath terraces: Implications for determining river incision rates using optically stimulated luminescence dating. *Geology*, *In Preparation*.

Professional Research Reports

- 2014 Hendricks, R., **Rodrigues, K.**, Hodson, A., Rink, W. J. Nexen OSL dating report for Calgary quartz samples. Hamilton, ON: McMaster University AGE lab. Prepared for Nexen (CNOOC ltd).
- 2014 **Rodrigues, K.**, Rink, W. J., Keen-Zebert, A. Gault, Texas archaeological dating report. Hamilton, ON: McMaster University AGE lab. Prepared for Dr. Michael B. Collins at the University of Texas Archaeological Research Laboratory.
- 2013 **Rodrigues, K.** & Rink, W. J. Dating report for coastal Georgia samples. Hamilton, ON: McMaster University AGE lab. Prepared for Dr. Clark R. Alexander at the Skidaway Institute of Oceanography.
- 2013 **Rodrigues, K.** & Rink, W. J. Dating report for Ryan-Harley, a Middle Paleoindian archaeological site. Hamilton, ON: McMaster University AGE lab. Prepared for Harley G. Means at the Florida Geological Survey.

PRESENTATIONS

- 2021 **Rodrigues, K.**, Keen-Zebert, A., Huot, S. Exploring the use of luminescence techniques for dating volcanic glasses, Luminescence and Electron Spin Resonance Dating (LED) 16th Annual Conference, September 13, 2021. (Oral Presentation).
- 2019 **Rodrigues, K.**, Keen-Zebert, A., Huot, S. Investigating the potential of the red thermoluminescence signal for dating volcanic glass, Monticello, IL: New World Luminescence Dating Workshop, August 4-7, 2019. (Oral Presentation).
- 2017 Keen-Zebert, A., **Rodrigues, K.**, Shepherd, S. L. (2017). Variability in the depositional age of alluvial fill overlying strath terraces: Implications for determining river incision rates using optically stimulated luminescence dating, New Orleans, LA: American Geophysical Union Fall Meeting, December 11-15, 2017. (Oral Presentation).
- 2017 **Rodrigues, K.**, Keen-Zebert, A., Huot, S., Adams, K. D. (2017). Testing the potential of thermoluminescence dating of volcanic glass with known-age samples, Seattle, WA:

	Geological Society of America, October 22, 2017. (Oral Presentation).
2017	Rodrigues, K. , Keen-Zebert, A., Huot, S., Adams, K. D. (2017). Testing the suitability of the TL signal for dating volcanic glass, Cape Town, South Africa: Luminescence and Electron Spin Dating Conference (LED 2017), September 11, 2017-September 15, 2017. (Poster Presentation).
2016	Rodrigues, K. and W. J. Rink. OSL investigations of a coastal Swift Creek occupation at Harrison Ring, Bay County, Florida. Denver, CO: GSA Annual Meeting, September 27, 2016. (Oral Presentation).
2014	Rodrigues, K. and W. J. Rink. Evaluating OSL equivalent dose distributions in an ant disturbed environment: Apalachicola National Forest. Montreal, QC: Luminescence and Electron Spin Resonance Dating (LED) 14 th Annual Conference, July 6, 2014. (Poster Presentation).

GRANT FUNDING

Current awards

2020	Keen-Zebert, A., Adams, K., Rodrigues, K. Testing the impact of reworking on the isochronicity of tephra deposited in diverse sedimentary environments. NSF Sedimentary Geology and Paleobiology, \$359,810 USD
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HONORS AND AWARDS

2020	Robert J. Watters Great Basin Chapter Scholarship – \$1,500 USD
2019	New World Luminescence Dating Workshop – 2 nd Place Presentation
2018	UNR Graduate Student Association Poster Symposium – 2 nd Place
2018	DRI Student Poster Competition – 1 st Place
2018	UNR Graduate Student Association Outstanding International Student Scholarship
2018	University of Nevada, Reno Research Grant Award - \$2,500 USD
2017	UNR Graduate Student Association Poster Symposium – 1 st Place
2017	GSA Travel Grant (UNR)
2016	GSA Travel Grant (UNR)
2015	Jonathan O. Davis Scholarship in Quaternary Sciences (DRI) - \$7,500 USD
2014	McMaster University Graduate Scholarship
2013	McMaster University Graduate Scholarship
2010-13	McMaster University Dean's Honor List
2008	McMaster University Entrance Scholarship
2008-2011	Queen Elizabeth Aiming for the Top Scholarship - \$14,000 CAD

TEACHING

Anoka-Ramsey Community College

NATS 1001	Astronomy (Instructor)	2020-
NATS 1003	Geology (Instructor)	2020-

NATS 1005	Meteorology (Instructor)	2020-
University of Nevada, Reno		
GEOL 102	Historical Geology (Instructor)	2020
GEOL 102	Historical Geology (TA)	2019
GEOL 260	Introductory Field Geology (TA)	2016
GEOL 211	Earth Materials and Geochemistry (TA)	2015, 18
GEOL 100	Earthquakes, Volcanoes, and Geologic Hazards (TA)	2015, 16

McMaster University

EARTH SC 3QQ3	Introduction to Scientific Dating (TA)	2015
EARTH SC 3T03	Geochemistry of Minerals and Rocks (TA)	2015
EARTH SC 2M03	Crystallography, Origins and Characteristics of Gemstones (TA)	2014
LIFE SC 2H03	Environmental Life Science (TA)	2014
EARTH SC 1G03	Earth and the Environment (TA)	2013

SERVICE ACTIVITIES

2019-	American Association of Engineering Geologists (AEG) Great Basin Chapter Secretary
2018-19	Advisory Board Member for NSHE Police Services
2017-18	DRI GRAD President
2013-14	McMaster School of Geography and Earth Sciences Graduate Committee Member
2013-15	McMaster School of Geography and Earth Sciences Research Day Committee Member
2010	McMaster Science Society Peer Mentor
2009-11	McMaster Student Accessibility Services Note Taker

PROFESSIONAL AFFILIATIONS

2018 -	Association of Environmental & Engineering Geologists (AEG)
2016 -	American Geophysical Union (AGU)
2016 -	Association for Women Geoscientists (AWG)
2016 -	The Geological Society of America (GSA)
2015 -	The American Quaternary Association (AMQUA)
2014 - 15	American Association of Petroleum Geologists (AAPG) – McMaster University Chapter member